

Swath Trip. (27/2/41 - 10/3/41)

Ruierina, Broken Hill, Milneania.

Made one stop ~~between~~ Jagiong & Gumdagai & found
only one ~~hand~~ - 1 stem & adult (green). Country so
far similar to that between Canberra & Yass, namely
mainly dreamy ~~light~~ light red podsolized soil, with
less red-brown soil. See hilly country, no timber
barrier along top (partly natural woodland partly
cleared) from ca. 13 miles before Coobee, flatish valleys
of some extent appear between hills. Soil
more prominent, & ~~for~~ 3 miles before Coobee a
little self-mulching ~~light~~ grey soil. Associated
with a creek. Gumdagai 17159. 159 ~~Ruridac~~ ¹⁵⁹ ~~Chorodactylus~~
from Gumdagai to here road to town, flood plain of Adelong
Creek. Soil greenish light red iron & loam. 73-79 steeper
hills, originally ^{mod.} densely timbered, still ~~very~~ partly
cleared in places - probably at least a partial
barrier. 79-82 modest hilly, hilly, podsolized & light
red sandy loam, some richer red-brown loam. 82-86
steeper hills, prob. partial barrier. 86-99 only ^{moderately} ~~hilly~~
~~undulating~~ ^{hilly} country approximating open ~~by~~ ~~with~~
some soil types. 90 ~~Tasmania~~ ^{Tasmania}. 99-²¹⁹ mostly less well cleared
though not much steeper. A siliceous-leaved ~~tree~~
from ~~Canberra~~ ^{Canberra}, becoming one of several common

inco. looked like the "white box" of the Tannworth dist.
Same soil types 17206-214 whitish podsol is strongly
predominating 209-212 ~~to~~ steeper, probably at least
partial harness. 219-233 (Holbrook) flat to gently undulating,
with scattered ranges of hills (which road is able to
avoid. Soil from ca. 227 mainly light reddish sandy
loam, with "white box" & "stringybark" dominant.

Extensive flat country to NW from ca. 227.

238. Examined typical ^{little-grazed} (clown) - *Andropogon* (?) *Bothriochloa decipiens*
paddock. In 200 yd traverse found ~~ca.~~ 1 adult
Chortocites per 20 yds. Also saw 1 *Phanacridium* &
1 prob. or *A. vulgaris*. Soil ^{compact,} pale brown sandy loam-
clay loam. 239-249 moderately hilly again. Natural or
artificial open woodland. 248. In 200 yd traverse
of moderately grazed pasture, mainly *Themeda*, *Andropogon*
& *Chloa* with clower, found no *Chortocites*. *Themeda*
dominant over most of traverse. 249-275 flat to
gently undulating with ranges of hills. Open
woodland. light brown sandy loam, "white box"
dominant. 259. 7 *Chortocites* in 200 yd traverse
of lightly grazed pasture of almost pure *Andropogon* with
light debris, predominately of minute *Andropogon*
leaves plants. 270. 1 *Chortocites* per 200 yds of lightly

grazed pasture of ca. equal parts *Andropogon* & sp. of *Eragrostis*, with a little *Chloris*. Also *Acrida*.

Albany 1275. From ca. 265 high timbered hills can be seen in a continuous line to SW & S at distance of ca. 20 miles. Albany itself gives the impression of being completely enclosed by timbered hills except from the NE where the Sydney road enters. Practically no cultivation between Gymp & Albany.

(282)

Albany - Corowa (N. SW road) Road runs close along river for first 4 miles. 86-93 further from river, light hills, mostly steep, same timbered, to right of road *E. albens* (?) brown topped ~~soil~~ sandy loam & loam, white bon dominant.

290. 3 *Chorizanthe* in 200 yds of close ^{short} pasture, clonal & debris of a shot grass (sp.). A little couch. 293. Country now flat, completely open to NW, open woodland. Light brown & light red hard, a little slightly greasy.

E. melliodora (?) mostly white bon & stringy bark. 300 How long, 303 ^{pos. *E. woodiana*} ^{lighter grass} nl. bon & stringy bark on same soils. 305. ca. 50 *Chorizanthe* in 200 yds of open *Chloris* pasture on light brown hard; old cultivation paddock. Low creeping herbage, mainly *Euphorbia Drummondii* clonal & *Euphorbia* sp. Small bare spaces up to ca 1 ft. diameter. Originally nl. bon & stringy bark. 306-310 also &

hard-
integro. of pale ^{hard-}greasy + pale red - red hard, with stringy,
nd box & little white box, latter mainly on higher ground.

1311. 4 Chortocetes on open lightly grazed pasture of ca.
equal quantities of a ^{Heliotropium europaeum (spec.)} select-leaved dicots, clover, &
^{Danthonia tenuis} Danthonia sp. (spec.). Very occ. Chlois truncata.

Pale red hard or hard-greasy. mainly stringy. 317 Corowa.

Albury - Corowa, & particularly Hume - Corowa was
mainly hard pale red, ca. (2). ^{A little or no variation between} Albury & Corowa.

(317) Corowa - Jerilderie. 17-22 light brown & light red hard, with
nd box, stringy & Cypress pine. 322 Ca. 51 Chortocetes in

200 yds. Equal no. Chlois, Danthonia & Siagrostis sp.

with a little clover, much spring debris, & a little
bare space. lightly grazed, beginning to dry off. nd box - pine.

Pale brown hard. 22-33 light ~~tan~~ red, brown & light
brown hard-greasy with nd box & pine, stringy in more
tall-sack occ. from 327.

low-lying parts, / 333 No Chortocetes in 200 yds very
rather dm
sparse pasture, mainly various dicots, clover, &

Danthonia, with very short debris & bare spaces. On the
stock route, which here is better pastured than the
paddocks on either side, several Chem. were seen.

338. Very small patch of light on pale grey in slight
depression. 338-42 gradual emergence of pale-mes.

grey slightly ~~on~~ soil in patches of increasing size.
up to 338 cultivation for wheat extensive. Country
became progressively drier from Corowa, & overstocking
was apparently practised on the sheep-wheat farms.

7342. 4 *Chortocites* in 200 yds almost completely
dry pasture on slightly - mod. ^{pale med} sm. soil. Pasture
apparently a tufted grass, & mitchell, & a *Scirpus* or
related genus. 42-47 Same alt. vintages of slightly
sm. - greasy med. grey and pale brown - pale & med. red-brown
hard, latter predominant. 47-53 almost pure brown
& red-brown. Strongly not seen since ca. 333, trees being
el. hon, pine & occ. bull oak. 353. 14 *Chortocites* in
swards of completely dry pasture of fairly dense 2ft-
2ft. 6. Thistle & debris of a short grass. Soil greasy
pale gb. Bon - pine - bull oak. 55-57 heath plain,
slightly ^{pale} sm. grey with strongly sm. puffs. Trees on
lighter parts. 57-60 mainly greasy gb. & brown (4 & 4-7)
in thick puffs. 60-65 alt. vintages of greasy brown &
hard red-brown. 362. No *Chortocites* in swards of
somewhat swampy area, now quite dry, pitted
by feet of cattle. Greasy soil, pasture mainly
Scirpus or related genus, almost completely dry.
Bon - pine, 65- ^{rather low} greasy brown w. a new spreading

gum with stump base & smooth pale above. Myall acc.
Tendency to strongly sm. puffs, well-dev. in park, esp.
68-71 17372 7 Chorizandra in woods. completely dry
pasture of yf. thistles, grass debris & bare space.
Soil brown sandy with ^{etc.} strongly sm. puffs. Treeless,
but trees, already noticed, on fringe. A few Leptosia.
72-77 alto sim to top of gb, brown red-brown, all sandy,
with puffs in various degrees of dev. The Treeless in
Great park, elsewhere myall, stunted w. box,
bull-oak. No pine since ca. 65. 77-83 (Gerilderie)
red-brown greasy (4), mostly treeless, quite numerous
myall, practically no puff-formation. Slightly
less dry from ca. 75.

Summary, Yass-Albury The whole stretch is
typical Tableland country, with exception of about
6 miles on other side of Holbrook, which represents
a SEastly tongue of the Riverina plain. Soil podsolis
~~with~~ with paler types of red-brown in places. Only
exception is 3 miles E of Coolac where there is a
small patch of ~~heavy~~ sm associated with a creek.
Summary, Albury - Gerilderie Similar to Albury
country for first 11 miles, then flat & open to Riverina

7 miles before Howlong. The lion starts 3 miles beyond Howlong (typical loc. of Riverina Compact Soils), and pine almost immediately NW of Corowa. Corowa is in typical Riverina country. At 21 miles NW of Corowa the first soil begins as patches, not very heavy, with hard-grassy predominant, ^{somewhat} mixed country for 9 miles. Then 8 miles of hard-grassy, 2 miles of mixed, & 8 miles of hard-grassy. Then ca. 12 miles of mixed ^{puffy} country, largely treeless, but no even moderately large areas of heavy soil. Finally 6 miles of greasy red-brown, similar to some round Nyngan. The more or less treeless plain may be considered to begin ca. 11 miles from Jerilderie, while puffy country is dominant from ca. 18 miles from Jerilderie. The latter is apparently the limit shown by Prescott.

(383)
Jerilderie & N 173 83 - 400 Greasy red-brown (4) with strong tendency to clay-pans - no puffs. Probably originally almost treeless, many trees scattered in small & spreading gum saltbush country. Little very saltbush grass in horse paddocks.

90
No Chorizandra in 200 yds completely dry pasture of dead dicot. ca. 8 ins high ^{low} & debris. 90 - 400 (up to Creek) ^{same country}
402 No Chorizandra in 200 yds completely dry pasture of

fairly dense grass, now ca 8 in. s., probably largely barley
grass. Soil pale grey greasy - slightly sm. ~~from~~ 17400 - 412. alts
vintergs. of red-brown greasy & gb. greasy, slightly sm., mainly
former. Myall very numerous from Yucca Creek. Other
trees rare. 410. No Chok. in 200 yds almost completely
dry pasture - saffron thistle 2 ft., grass debris ca. 6 in.
Occ. green Solanum. Soil gb. greasy, occ. slightly sm. 412 - 422
alts. vintergs. of red-brown greasy with myall & red-brown
hard-sandy with pine, hakea, supplejack & bull-oak.
420. 1 Chok. in 200 yds completely dead & very heavily grazed
pasture of miscellaneous debris, not more than ca. $\frac{1}{2}$ in
high on av., w. numerous smallish bare spaces. Myall,
some hakea, some pine. 22-27. alts vintergs. of greasy
red-brown and grey greasy - mod sm., with myall.
27-39 alts vintergs. of red-brown greasy w. myall & red-brown
hard-sandy w. pine, hakea, supplejack & bull-oak, hard-sandy
strongly dominant. (This is along Dardington Pt. Rd.
from 24. 429 1 Chok. in 200 yds. very heavily grazed ~~pasture~~
pasture, dry but showing a little green pick, prob.
mostly Chloris. Soil red-brown greasy & green - slightly
sm. gb. Occ. puffs. Consid. bare space. 34-35 Couple of
small stretches of mod. sm. grey. 439. 7 Chok. in 200 yds

heavily grazed very short pasture showing fair green patch
of chloris. ^{very low} Grass debris, consist. bare space ^{greasy red-brown}
(4) with occ. rather small puffs. Myall. Return along
same road. 17454 back to corner turn-off. 54-65 alts &

intergs. of greasy red-brown myall & hard-sandy red-brown
with pine, hakea, etc., latter type predominant. 465
Kochia tomentosa

9 Chort. in 200 yds very lightly grazed pretty green pasture
of chloris, *Panicum decompositum* sp. (spec.) & a creeping perennial
saltbush (ca. equal parts.) Occ. small rolling patches.

Red-brown greasy with myall. A little debris, a little bare
space. 65-69 (Coombil entrance) some good short term alts
of red-brown greasy ^{mod.-heavy} *E. bicolor* (?) grey, with myall quite thick.

"Black box", like coolabah, in depressions. 69-77 (Coombil
homestead) mainly greasy red-brown w. numerous myall.
Occ. small patches mod.-heavy ^{sun} grey. Mainly "black
soil" ca. 1/2 mile N x NW + NE of Coombil homestead. 85 return

to road, turn right. 490 2 Chort. in 200 yds. lightly grazed
pretty green
pasture of chloris, *Solanum* & low hebe (Mabwa etc.)

On slightly sun. gr. soil with few small puffs. Mod.
amt. bare space. Myall. 85-90 mainly red-brown
greasy short w. patch sun. gr. at 89. Quite numerous

Chort. seen here, the count at 490 being prob. not representative

17601-101

Eragrostis elongata — *Eriopogon pallidus*

Eragrostis elongata

Sporobolus Caroli

23-27

Chenopodium nitroariacum?

17634.

1 Chen. in the

Atriplex stipitata (?)

6
pale
Danthonia sp.

Chenopodium nitroreale

17696.

some

96-7-100

(1)

707-10

13-16

16-18

749-750

17743

Bassia obliquicuspis

775-1 - a l.

7-7

17861. *Digitaria* *amunophila*

Aristida Browniana, *Digitaria amunophila*

Acacia Victorae

9302 *Acacia* *Victorae*

[Faint handwritten text]

477

den fecht

[illegible]

Eragrostis setifolia

Atriplex spongiosa

1897

Emmenanthe aeneolacca

(19008)

Acacia - *Acacia* ...

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Heavy ...

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1819

Acacia ansera

25 from 1819

Heterodendron olacifolium

Cassia Sturtii

Eremophila Duttonii

Eremophila Sturtii

[illegible]

18209

[illegible]

18238

Hakea leucophaea

18287.

Acacia homalophylla (?)

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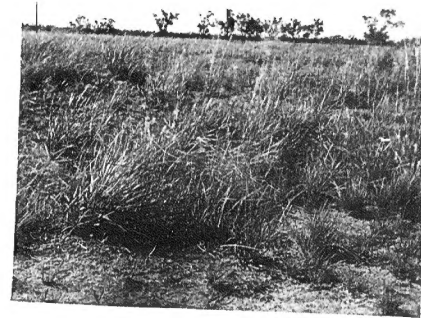
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well-dw. puff-depression complex on brown soil.
Very good ^{Group} green pasture, very little grazed. Photo 7 of
puff-depression shelf, 8 of depression (Yungambill,
Chloris, Danthonia), 9 of puff (small Yungambill, Solanum,
Sida, Convolvulus), 10 of shelf (Danthonia) 11 of general
view, ~~background~~ ^{background} along watercourse in background.

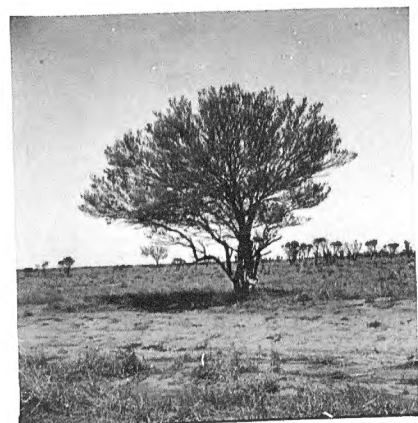
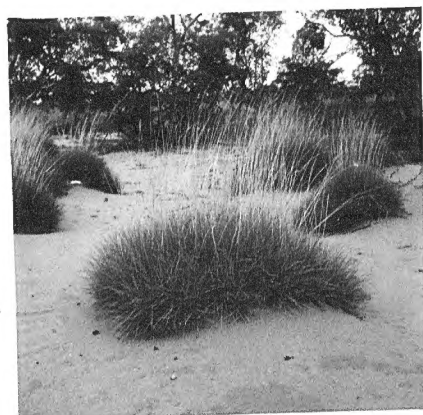
Spec. of Yungambill. 12 Chot/rooyd 18675-81 Greasy & hard
pale red-brown over low ridge with pine, nl. box; &
stringbark(?). 81-85 alts of heavy sun & hard greasy.
85-97 (Narandera) mainly pale grey, greasy near river,
with gum & stringbark, unclaired in places. Partly has
pale-red-brown with pine & nl. box. 92-94 Alts with
med. grey puffs.

⁽⁶⁹⁹⁾ Narandera - Hume Highway: 699-707 Hard & greasy
pale red-brown - pale gl. with nl. box & pine. 707-711
brown, ^{very} ^{green} fluffy soil, Chloris pasture, little grazed; dead
saffron thistle on puffs. 708 39 Chot/rooyd. 711-21
greasy & hard ^{pale} red-brown - gl. with nl. box, pine & occ.
bull oak. 21-30 alts with bgs. of heavy grey & gl. sun,
most of it with very well-dw. puffs, & greasy-hard,
mainly former (flat, few trees & myall occ.) 30-46
greasy & (mainly) hard, pale red-brown & red-brown ^{hard} ^{fine}

nl. loc dominant plus pine, occ. hull oak & occ.
stringy bark ^{gently undulating} 18746-51 Gently hilly. Mainly rich red-brown
hard, with nl. loc, white loc. esp. toward tops of
rises, & pine, occ. hull oak. 51-52 Patch of creamy-
not sun. gr. - grey. 52-59 (Meagla) Through gr. greeny
hard to pale red-brown hard, with white loc, nl. loc &
stringy bark in ca. equal nos. No pine. ~~Meagla~~
itself is on a rising - slightly sun. flat. 60-72 Red-brown
- gr. hard & greeny. nl. loc, white loc, stringy. 72-77
hilly, red-brown hard, with slight tendency to podaric-
white loc & stringy (Hume Hume)
shown in part of 77-92 Pale red-brown red-brown hard,
with stringy, greeny, white loc & nl. loc. Occ. gr. greeny.



See also material
relating to bulletin
186 - Pl. 2 (b)



25 miles from Narrandera on road to Hay. Several acres of typical Puffy country under dense grass growth of pasture. Photo shows numerous Puffy depressions, the latter carrying X 11 heavy fens.

X 10.

"Puffy" country, 25 miles from Narrandera on road to Hay. Photo shows vegetation of shelf: Danthonia sp.

Y 10.

March 1941

K.H.K.

1st mile N of Pooncarra on road to Merindie. Red sand hill lining the Darling flood plain. Rolly polly & Puffy grass. Typical habitat for Lernaea guthrieana.

"Puffy" country, 25 miles from Narrandera on road to Hay. Photo shows vegetation of depression: Garganhill (5 ft. sp.) Chloris truncata & Danthonia sp.

X 8.

March 1941

K.H.K.

"Puffy" country, 25 miles from Narrandera on road to Hay. Photo shows vegetation of Puffy: Sclavum laevale, Sida, Convolvulus, small Garganhill.

X 9.

See also material relating to bulletin 186 - Pl. 2 (6)

9 miles from Booligal on road to Hay. Bassia-salthus mesembrianthemum association on brown glassy soil.

X 6.

March 1941

K.H.K.

25 miles from Balranald on road to Wentworth. Mallee-spinifex association on loose sandy soil.

Y 7.

March 1941

K.H.K.

19 miles from Merindie on road to Broken Hill. Association of Casuarina sp., mulga, hakea, shrubby salthus & grasses.

Y 11

March 1941

K.H.K.

63 miles from Broken Hill on road to Wilcannia. Acacia rodens Association of Hakea sp. Sparse grass pasture.

X 2.

March 1941

K.H.K.

ca. 30 miles from Wilcannia on road to Broken Hill. Shrubby salthus association with Leopards cat.

X 3.

March 1941

K.H.K.

Chenopodium sp. on grey-brown sandy loam. Black box in background. Chloris truncata, with a little Parthenium sp. & rolly-polly.

Y 1.

33 miles W of Deniliquin on Moulamein road.

March 1941

K.H.K.

40 miles from Moulamein on road to Balranald. Hakea sp. frequent in this region.

Y 6.

March 1941

K.H.K.

25 miles from Wentworth on road to Pooncarra. Typical large mallee, no undergrowth.

Y 9.

March 1941

K.H.K.

24 miles from Merindie on road to Broken Hill. Mulga typical of this region (not shown size) Bassia & grass.

Y 12

March 1941

K.H.K.

9 miles from Booligal on road to Hay. Collecting site for several spp. Bassia-salthus-mesembrianthemum association on brown grassy soil.

X 5.

38 miles W of Moulamein on road to Balranald. Very mixed association of mallee (right), bilah (left), pink, white hakea (background) & Chenopodium in fore-ground.

Y 4

March 1941

K.H.K.

38 miles W of Deniliquin on Moulamein road. Medium-sized salthus on heath plain. Very pale grey grassy soil, no grass.

Y 3.

March 1941

K.H.K.

40 miles from Moulamein on road to Balranald. Heteropogon but frequent in this region.

Y 5.

March 1941

K.H.K.

25 miles from Balranald on road to Wentworth. Spinifex in ass. with mallee on red sandy soil.

Y 8.

March 1941

K.H.K.

55 miles from Wilcannia on road to Swan Hill. Tall "Gramophila" frequent in this region (not shown size) grass-bassia pasture.

Y 12

55 miles from Wilcannia on road to Swan Hill. Tall "Gramophila" frequent in this region (not shown size) grass-bassia pasture.

X 4

March 1941

K.H.K.

55 miles from Broken Hill on road to Wilcannia. Open mulga association.

X 1.

March 1941

K.H.K.

Ca. 36 miles W of Deniliquin on Moulamein road. Chenopodium sp. & "Dubbos bushes" with Chloris truncata on pale grey moderately to heavy self-mulching soil.

Y 2.

March 1941

K.H.K.